

# SAFETY DATA SHEET

## SUPERIOR No. 91

DATE REVISED: June 29, 2017

**Product Name/Part Number:** Superior No. 91

**Manufacturer:** Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland OH, 44139

**Emergency Phone Number: 1-800-424-9300 (CHEMTREC)**

**Other Information Calls:** (440) 349-3000

### SECTION 1 -- IDENTIFICATION

**Common Name:** Superior No. 91

**Chemical Family:** Water Soluble, Non-Halide Flux

**CAS Number:** N/A

**Chemical Name:** N/A

**Formula:** See Section 3

### SECTION 2 – HAZARDS IDENTIFICATION

#### GHS Classification:

Flammable liquid (Category 2) H225

Eye irritation (Category 2A) H319

Specific target organ toxicity, single exposure

– Central nervous system (Category 3)

H336

#### Hazard Statement(s)

H225 Highly flammable liquid and vapor

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

#### Precautionary statement(s)

P210 Keep away from sparks and open flames. No smoking.

P233 Keep container tightly closed.

P240 Bond container and receiving equipment.

P241 Use explosion-proof ventilation equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing fumes, mist, vapours, or spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye protection

P303+P361+P353 IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

#### Label Elements



**Pictogram(s):**

**Signal Word:** Danger

See section XVI for full text description of H-Statements

P501 Dispose of contents to an approved waste disposal plant.

**Hazards not otherwise classified or not covered by GHS:** May form explosive peroxides

---

### SECTION 3 – COMPOSITION INFORMATION

Components	CAS Number	%
Isopropanol	67-63-1	70-90
Citric Acid	77-92-9	10-25

None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

---

### SECTION 4 – FIRST AID MEASURES

#### Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** Remove to fresh air or administer oxygen. Call a physician.

**Eyes:** Flush with water for fifteen (15) Minutes. Remove contacts if present and easy to do so. Call physician.

**Skin:** Wash thoroughly with soap and water.

**Ingestion:** If patient is fully conscious, give two glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately

#### Most Important Symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 (labeling)

**Medical Conditions Generally Aggravated by Exposure:** Skin, kidneys, or liver

**OSHA Permissible Exposure Limit (PEL):** 15 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 15 mg/m<sup>3</sup>

---

### SECTION 5 – FIREFIGHTING MEASURES

**Extinguishing Media:** Dry chemical, carbon dioxide or alcohol-resistant foam

**Special Hazards:** Do not mix with strong oxidizing or dehydrating agents.

**Advice for firefighters:** Wear protective clothing, including NIOSH approved self-contained breathing apparatus

---

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment:** Use personal protective equipment.

See section 8 for personal protection.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so.

**In Case Material is spilled:** Absorb with sawdust, sweep up and shovel. Keep in suitable, closed containers for hazardous disposal. Flush remaining material with plenty of water.

---

### SECTION 7 - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area. Keep containers in a well-ventilated place. Do not store in glass. Keep container away from sparks, heat, open flames, or oxidizing agents.

**Handling Precautions:** Avoid contact with skin and eyes. Provide appropriate and adequate ventilation for fumes and vapor.

For precautions see Section 2

---

---

## SECTION 8 - CONTROL MEASURES

**Respiratory Protection:** For nuisance exposures use type P95 (US) particle respirator. For higher level protection use type OV/AG/P99 respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Ventilation:** Yes    **Mechanical (General):** Explosive-proof    **Local Exhaust:** Yes

**Protective Gloves:** Yes – Nitrile rubber. Use equipment tested and approved under NIOSH standards.

**Eye Protection:** Safety glasses conforming to EN166. Use equipment tested and approved under NIOSH standards.

**Other Protective Clothing or Equipment:** Rubber apron recommended.

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of the anticipated use. It should not be construed as offering an approval for any specific use scenario.

---

## SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>Appearance:</b>	Clear liquid, colorless
<b>Odor:</b>	Alcohol
<b>pH:</b>	1.8 @ 20-25°C
<b>Melting/Freezing Point:</b>	-88°C
<b>Boiling Point/Range:</b>	82°C
<b>Flash Point:</b>	398.9°C
<b>Evaporation Rate:</b>	2.88 (Butyl Acetate = 1)
<b>Flammability (solid/gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapor Pressure</b>	33mmHg
<b>Vapor Density</b>	2.07 (Air = 1)
<b>Relative Density</b>	0.865 (Water = 1)
<b>Bulk Density</b>	No data available
<b>Water Solubility</b>	Unlimited
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

---

## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** No data available

**Stability:** Product is stable under recommended storage conditions

**Possibility of hazardous reactions:** No data available

**Conditions to Avoid:** Heat, sparks, open flame

**Incompatibility:** Strong oxidizers

**Hazardous Decomposition Products** CO

In the event of fire: See Section 5

---

---

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

### Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
  - 2) **Eye Irritation:** (rabbit): Not available
- 

## SECTION 12 - ECOLOGICAL INFORMATION

**This material has not been tested for environmental effects.**

---

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

---

## SECTION 14- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Isopropanol

**Identification Number:** UN1219

**Hazard Class:** 3

**Type D.O.T Label Required Information:** Flammable Liquid      **Packing Group:** II

---

## SECTION 15 - REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** None

**Carcinogenicity Classification (Components Present at 0.1% or More):** Non-carcinogenic

**International Agency for Research on Cancer (IARC):** Not listed

**American Conference of Governmental Industrial Hygienists (ACGIH):** Not listed

**National Toxicology Program (NTP):** Not listed

**Occupational Safety and Health Administration (OSHA):** Not listed

**None of the components of this product are listed on the U.S. toxic substances control act inventory or otherwise comply with TSCA pre-manufacture notification requirements.**

---

## SECTION 16 - OTHER INFORMATION

**Full text of H-Statements and P-Statements referred to in Section II and/or III.**

H225            Highly flammable liquid and vapor

H319            Causes serious eye irritation

H336            May cause drowsiness or dizziness

### HMIS Rating

Health        1

Flammability 3

Reactivity    0

### Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. The above information does not represent any guarantee of the properties of the product. It is believed

to be correct, but does not purport to be all inclusive and should be used only as a guide. Reasonable care has been taken in the preparation of this material, and is based on the present state of our knowledge.

Superior Flux & Mfg. Co. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Preparation information**

Superior Flux & Mfg. Co.  
440-349-3000

Version 1.1

Revision Date: 06/29/2017

---